Z-Communications, Inc.
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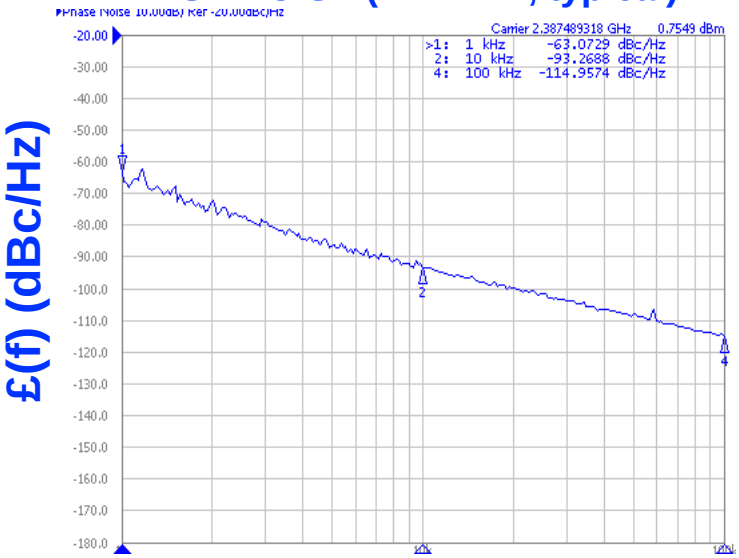
SMV2390L-LF

VOLTAGE CONTROLLED OSCILLATOR

Rev D4

PHASE NOISE (1 Hz BW, typical)



£(f) (dBc/Hz)

OFFSET (Hz)

FEATURES

- Frequency Range: 2290 - 2485 MHz
- Tuning Voltage: 0-4 Vdc
- SUB-L - Style Package

APPLICATIONS

- Personal Communication Systems
- WLAN
- Portable Radios

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	2290 - 2485	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-93	dBc/Hz
Harmonic Suppression (2nd, typ.)	-9	dBc
Tuning Voltage	0-4	Vdc
Tuning Sensitivity (avg.)	130	MHz/V
Power Output	10±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<7	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<19	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	SUB-L	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	17	mA

All specifications are typical unless otherwise noted and subject to change without notice.

APPLICATION NOTES

- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

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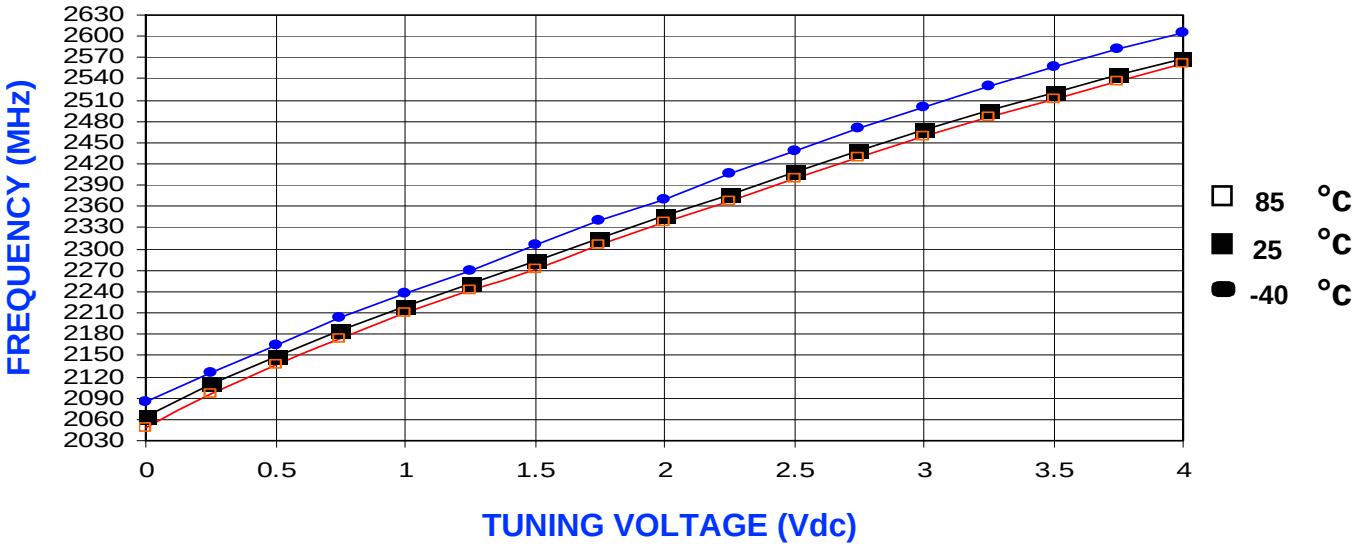
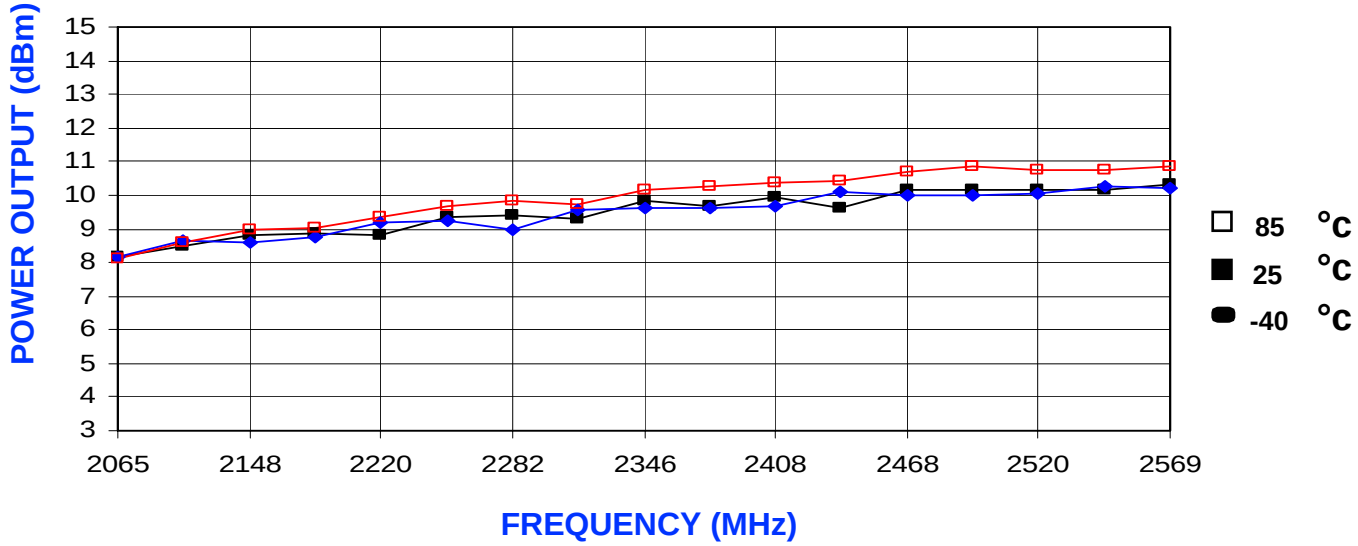
LOW COST - HIGH PERFORMANCE

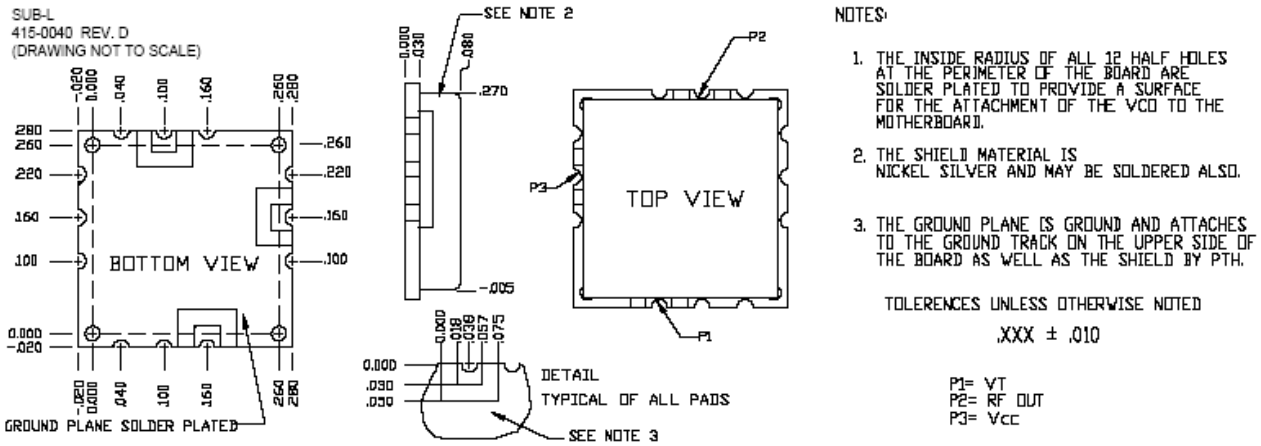
TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS



NOTES:

1. THE INSIDE RADIUS OF ALL 12 HALF HOLES AT THE PERIMETER OF THE BOARD ARE SOLDER PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO TO THE MOTHERBOARD.
2. THE SHIELD MATERIAL IS NICKEL SILVER AND MAY BE SOLDERED ALSO.
3. THE GROUND PLANE IS GROUND AND ATTACHES TO THE GROUND TRACK ON THE UPPER SIDE OF THE BOARD AS WELL AS THE SHIELD BY PTH.

TOLERENCES UNLESS OTHERWISE NOTED

.XXX ± .010

P1= VT
P2= RF OUT
P3= Vcc